

Safety Smart Book

	NCARNG SOH OFFICE CONTACTS	OFFICE CO	NTACTS	
State Safety Manager	COL John Mullinax	984-664-6253	919-612-9732	919-612-9732 john.d.mullinax.mil@mail.mil
Occupational Health Nurse	MAJ Christina Henderson	984-664-6206	919-612-9734	919-612-9734 christina.j.henderson4.mil@mail.mil
State Safety Specialist	1SG Gregory Greene	984-664-6420	919-271-3379	919-271-3379 gregory.m.greene8.mil@mail.mil
State Safety Specialist	MSG Hugh Wilson	984-664-6153	919-802-4837	hugh.a.wilson.mil@mail.mil
Industrial Hygiene Technician	SFC Wayne Benner	984-664-6388	919-271-8437	919-271-8437 wayne.b.benner.mil@mail.mil
North Carolina Joint Operations Center (JOC)	nter (JOC)	984-664-6119	ng.nc.ncarng.ml	ng.nc.ncarng.mbx.joc-nc-mailbox@mail.mil
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UNIT SAFETY CONTACTS

	UNIT SAFE	UNIT SAFETY CONTACTS	стѕ	
Facility ADSO				
Facility Commander/Supervisor				
Unit ADSO				
Unit Commander				
BN ADSO				
BN Commander				
MSC/BDE ADSO				
	SAFE	SAFETY LINKS		

NCARNG SOH Internet Page - https://states.gkoportal.ng.mi/states/NC/jstaff/3/aso/Pages/Safety-and-Occupational-Health.aspx

U.S.Army Combat Readiness/Safety Center - https://safety.army.mil/ Occupational Safety & Health Administration - https://www.osha.gov/

Required Safety Training

Required safety courses for Soldiers, technicians, and civilian employees of the NCARNG.

ALL training completed will be recorded and tracked in DTMS-SOH.

All Soldiers	Composite Risk Management Basic Course (CRM) ¹ Army Accident Avoidance Course (AAC) – (every 4 years) ¹
Motorcycle Operators	MSF Approved Basic Rider Course (BRC) ² MSF Approved BRC2 or ERC ²
Officers and Warrant Officers (before assuming command)	Commander's Safety Course ¹
Battalion Commanders (within 90 days of assuming command)	Army Readiness and Assessment Program (ARAP) ¹
Additional Duty Safety Officers (ADSO)	Additional Duty Safety Course ¹ RCAS SOH Training Course ² OSHA for 1 st Line Supervisor's Course ² Ground Safety Officer Course (GSOC) – (BN Level and Above) ³
Military Technicians per Their Position	Supervisor's Safety Course ¹ Manager's Safety Course ¹ Employee's Safety Course ¹ Composite Risk Management Civilian Basic Course ¹

In addition to the above courses, all Soldiers will receive a briefing, or formal training as appropriate, on the following topics annually. This training will be recorded and tracked in DTMS-SOH as well.

- Composite Risk Management
- Severe Weather
- Emergency Evacuation Drill
- Fire Extinguishers
- POV/POM Safety
- Weapons Safety (before AWQ)

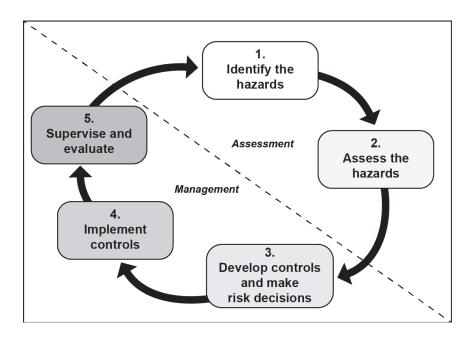
Notes:

¹ Online Course – register through link on State Safety Office website

²Resident Course – apply through State Safety Office

³ Resident Course – apply trough ATRRS

CRM Process

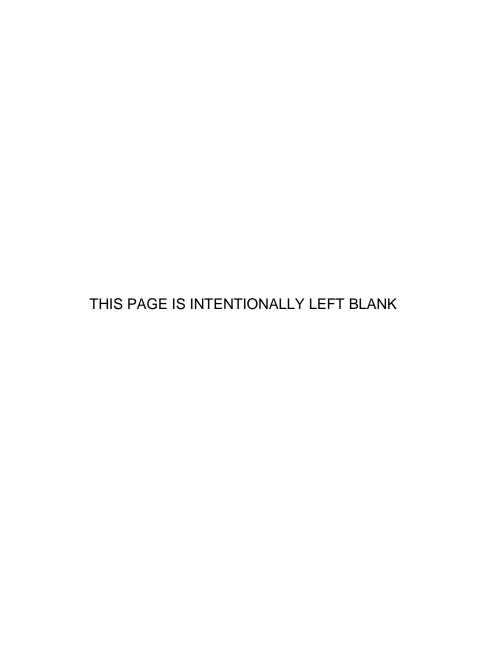


	CCEPT ANY UNNECESSARY RISK!
	RISK DECISIONS ARE MADE AT
11	HE APPROPRIATE LEVEL.
	HAZARD SEVERITY
	es of an event in terms of degree of injury, property
damage	or other mission-impairing factors.
	Death or permanent total disability, system loss,
CATASTROPHIC	major damage, significant property damage or
	mission failure.
	Permanent partial disability, temporary total
CRITICAL	disability in excess of 3 months, major system
	damage, significant property damage or significant
	mission degradation.
MARGINAL	Minor injury, lost workday incident, minor system
WARGINAL	damage, minor property damage or some mission degradation.
	First aid or minor medical treatment, minor system
NEGLIGIBLE	impairment or little/no impact on mission
NEGLIGIBLE	accomplishment.
	COMPOSITE RISK MANAGEMENT (CRM)
HAZARD PROBABILITY	AT A GLANCE
	CRM is the Army's primary decision making process for
Probability is the likelihood	identifying hazards and controlling risks across the full
an event will occur.	spectrum of Army operations.
	Use the following five steps (see FM5-19 Chapter 1)
	4 Identify the Henerale, Hererale have the notential to
FREQUENT:	1. Identify the Hazards: Hazards have the potential to
Occurs often or	Identify the Hazards: Hazards have the potential to cause injury, illness, or death of personnel; damage to
	I. Identify the Hazards: Hazards have the potential to cause injury, illness, or death of personnel; damage to or loss of equipment or property; or mission
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	Probability	Probability (expected frequency)	77		
Risk Assessment Matrix	Frequent Continuous, regular, or inevitable occurrences	Likely: Several or numerous occurrences	Occasional: Sporadic or intermittent occurrences	Seldom: Infrequent occurrences	Unlikely: Possible occurrences but improbable
Severity (expected consequence)	4	œ	o	٥	ш
Catastrophic: Mission failure, unit readiness eliminaled; death, unacceptable loss or damage	H	ä	Ξ	Ξ	M
Critical: Significantly degraded unit readiness or mission capability; severe injury, illness, loss or damage	H	I	Ξ	M	7
Moderate: Somewhat degraded unit readiness or mission capability; minor injury, illness, loss, or damage	=	×	Σ	1	_
Negligible: Little or no impact to unit readiness or mission apability; minimal injury, loss, or damage	₩ ≥	_	_	_	_
Legend: EH - Extremely High Risk H - High Risk	M - Medium Risl	M - Medium Risk L - Low Risk			

		DELIBERATE RI	SK ASSES	SMENT W	orks	HEET			
1. MISSION/TASK DESCRI	PTION							2. DATE (DD	/MM/YYYY)
3. PREPARED BY									
a. Name (Last, First Middle	initiai)		b.	Rank/Grade		c. Duty	Title/Positi	on	
d. Unit	e. Work Ema	ıll	<u>'</u>		f. Tele	phone (i	DSN/Comme	ercial (înclude A	rea Code))
g. UIC/CIN (as required)	h. Training S	upport/Lesson Plan	or OPORD (as required)	I. Sign		Preparer		
Five steps of Risk Manageme	ent: (1) identify (4) implem	the hazards (2) a ent controls (5) 5	Assess the ha Supervise and	zards (I evaluate (Ste	(3) Deve	lop contr ers not e	rois & make equal to num	decisions bered items on	form)
4. SUBTASK/SUBST MISSION/TASK	TEP OF 6. HAZ	ZARD	8. INITIAL RISK LEVE	7. CONTRO	L			MPLEMENT/ L IMPLEMENT	9. RESIDUAL RISK LEVEL
+							How: Who:		
10. OVERALL RESIDUAL R	RISK LEVEL (A	li controls implemente	eď):						
EXTREMELY HIGH	· 🗆	HIGH		MEDIUM			Low		
11. OVERALL SUPERVISIO	N PLAN AND	RECOMMENDED CO	DURSE OF A	CTION					
12. APPROVAL OR DISAPP	PROVAL OF M	ISSION OR TASK	_ A	pprove] Disap	prove		
a. Name (Last, First, Middle	e Initial)	b. Rank/Grade	c. Dul	y Title/Positi	on	d. S		Approval Auth	ority
e. Additional Guidance:		•	'			'			

			Probability /ex	pected frequenc	ovl.		
Risk As	sessment Matrix		Frequent: Continuous, regular, or inevitable occurrences	Likely: Several or numerous occurrences	Occasional: Sporadic or Intermittent occurrences	Seldom: Infrequent occurrences	Unlikely: Possible occurrences but improbable
Severity (expected conse	equence)		А	В	С	D	E
Catastrophic: Mission fa death, unacceptable loss	llure, unit readiness eliminated; or damage	ı	ЕН	ЕН	н	н	м
Critical: Significantly deg capability; severe injury, i	raded unit readiness or mission liness, loss or damage	ıı	EH	н	н	м	L
Moderate: Somewhat de capability; minor injury, illi	graded unit readiness or mission ness, loss, or damage	ш	н	м	м	L	L
Negligible: Little or no im capability; minimal injury, i	pact to unit readiness or mission oss, or damage	IV	М	L	L	L	L
Legend: EH - Extreme	ely High Risk H - High Risk	М -	Medium Risk	L - Low Risk	•		
13. RISK ASSESSMENT	REVIEW (Required when assess	nent ap	piles to angoing	operations or ac	tivities)		
a. Date	b. Last Name	c. Ra	nk/Grade	d. Duty	Title/Position	e. Signatur	e of Reviewer
						STREET, STREET	
14. FEEDBACK AND LE	SSONS LEARNED						
15. ADDITIONAL COMM	ENTS OR REMARKS						

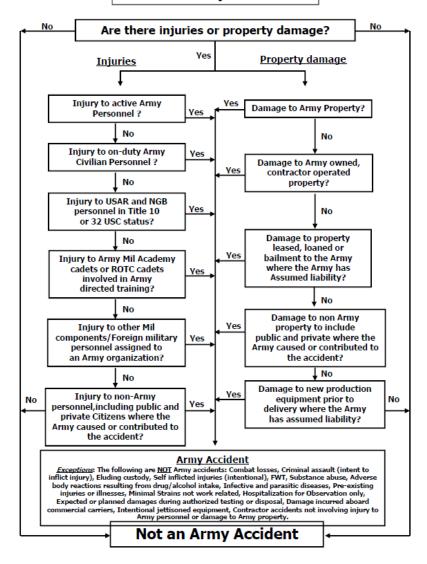


- Mission/Task Description: Briefly describe the overall Mission or Task for which the deliberate risk assessment is being conducted.
- Date (DD/MM/YYY): Self Explanatory.
- 3. Prepared By: Information provided by the individual conducting the deliberate risk assessment for the operation or training. Legend: UIC = Unit Identification Code; CIN = Course ID Number; OPORD = operation order; DSN = defense switched network; COMM = commercial
- Sub-task/Sub-Step of Mission/Task: Briefly describe all subtasks or substeps that warrant risk management.
- Hazard: Specify hazards related to the subtask in block 4.
- 6. Initial Risk Level: Determine probability and severity. Using the risk assessment matrix (page 3), determine level of risk for each hazard specified. probability, severity and associated Risk Level: enter level into column.
- Control: Enter risk mitigation resources/ controls identified to abate or reduce risk relevant to the hazard identified in block 5.
- 8. How to Implement / Who Will Implement: Briefly describe the means of employment for each control (i.e., OPORD, briefing, rehearsal) and the name of the individual unit or office that has primary responsibility for control implementation.
- Residual Risk Level: After controls are implemented, determine resulting probability, severity, and residual risk level.
- 10. Overall Risk After Controls are Implemented: Assign an overall residual risk level. This is equal to or greater than the highest residual risk level (from block 9).

- 11. Supervision Plan and Recommended Course of Action: Completed by preparer. Identify specific tasks and levels of responsibility for supervisory personnel and provide the decision authority with a recommend course of action for approval or disapproval based upon the overall risk assessment.
- 12. Approval/Disapproval of Mission/Task: Risk approval authority approves or disapproves the mission or task based on the overall risk assessment, including controls, residual risk level, and supervision plan.
- 13. Risk Assessment Review: Should be conducted on a regular basis. Reviewers should have sufficient oversight of the mission or activity and controls to provide valid input on changes or adjustments needed. If the residual risk rises above the level already approved, operations should cease until the appropriate approval authority is contacted and approves continued operations.
- 14. Feedback and Lessons Learned: Provide specific input on the effectiveness of risk controls and their contribution to mission success or failure. Include recommendations for new or revised controls, practicable solutions, or alternate actions. Submit and brief valid lessons learned as necessary to persons affected.
- 15. Additional Comments or Remarks: Preparer or approval authority provides any additional comments, remarks, or information to support the integration of risk management.

Additional Guidance: Blocks 4-9 may be reproduced as necessary for processing of all subtasks/ substeps of the mission/task. The addition and subtraction buttons are designed to enable users to accomplish this task.

Is it an Army Accident?



ARMY ACCIDENT CLASSIFICATION CHART

Accident Class	Definition
A	An Army accident in which the resulting total cost of property damage is \$2,000,000 or more; an Army aircraft is destroyed, missing, or abandoned; or an injury and/or occupational illness results in a fatality or permanent total disability. Note that unmanned aircraft systems (UAS) accidents are classified based on the cost to repair or replace the UAS. A destroyed, missing, or abandoned UAS will not constitute a Class A accident unless replacement or repair cost exceeds \$2,000,000 or more.
В	An Army accident in which the resulting total cost of property damage is \$500,000 or more, but less than \$2,000,000; an injury and/or occupational illness results in permanent partial disability, or when 3 or more personnel are hospitalized as inpatients as the result of a single occurrence.
С	An Army accident in which the resulting total cost of property damage is \$50,000 or more, but less than \$500,000; a nonfatal injury or occupational illness that causes 1 or more days away from work or training beyond the day or shift on which it occurred or disability at any time (that does not meet the definition of Class A or B and is a lost time case).
D	An Army accident in which the resulting in total cost of property damage is \$20,000 or more, but less than \$50,000; a nonfatal injury or illness resulting in restricted work, transfer to another job, medical treatment greater than first aid, needle stick injuries and cuts from sharps that are contaminated from another person's blood or other potentially infectious material, medical removal under medical surveillance requirements of an OSHA standard, occupational hearing loss, or a work–related tuberculosis case.
E ground accident	An Army ground accident in which the resulting total cost of property damage is \$5,000 or more but less than \$20,000.
E aviation accident	An Army aviation accident in which the resulting total cost of property damage is \$5,000 or more but less than \$20,000.
F aviation incident	Recordable incidents are confined to aircraft turbine engine damage because of unavoidable internal or external foreign object damage, where that is the only damage (does not include installed aircraft auxiliary power units). These incidents will be reported using DA Form 2397–AB–R (Abbreviated Aviation Accident Report); check "F" in the "Accident Classification" block. Note that when appropriate, it is the unit commander's responsibility to ensure that an SF Form 368 (Product Quality Deficiency Report) or equipment improvement report (EIR) for Category II or message for Category I is completed and forwarded to the appropriate agency per AR 750–6, DA Pam 750–8, or DA Pam 738–751. The USACRC and the appropriate Army Headquarters will be information addressees on all Category I EIRs and product quality deficiency reports.
NOTES	When appropriate, it is the unit commander's responsibility to ensure that an SF Form 368 (Product Quality Deficiency Report) or equipment improvement report (EIR) for Category II, or message for Category I is completed and forwarded to the appropriate agency per AR 750-6, DA Pam 750-8, or DA Pam 738-751. The USACRC and the appropriate Army Headquarters will be information addressees on all Category I EIRs and product quality deficiency reports.



TAG Command Critical Information Requirements (CCIR)

- 1. Death or Serious Injury of a North Carolina National Guardsman.
- 2. Any accident or incident involving a North Carolina National Guard Soldier or Airmen resulting in the death or injury of a civilian.
- 3. Any accident or incident resulting in major damage or loss of North Carolina National Guard equipment or property (Greater than \$2500).
- 4. Any threat, suspected act of terrorism or sabotage against a North Carolina National Guard or North Carolina military facility.
- 5. Any notification of alert or mobilization of North Carolina National Guard units outside of ARFORGEN / AEF cycle.
- Any curtailment or premature demobilization of North Carolina National Guard units deployed in support of Overseas Contingency Operations.
- 7. Any request from North Carolina Department of Public Safety for North Carolina National Guard Units.
- 8. Activation of RDU or CLT airports as Regional or National air evacuation hubs.
- 9. Any loss or compromise of Personally Identifiable Information (PII) for a member of the North Carolina National Guard.
- 10. Combat Death of any National Guardsman.
- 11. Any deployment of North Carolina National Guard units outside of North Carolina in support of Emergency Management Assistance Compact.
- 12. Any visit to a North Carolina National Guard facility by the Governor, Lieutenant Governor, or elected members of North Carolina General Assembly or North Carolina Congressional Delegation.
- 13. Any serious incident/event which requires mandatory reporting to any command control element at NGB, AFNORTH, NORTHCOM, ARNORTH, or other HICON.

Green 8 - SERIOUS INCIDENT REPORT

PRECEDENCE:

SECURITY CLASSIFICATION:

- 1. TYPE OF INCIDENT:
- 2. DATE AND TIME:
- 3. LOCATION:
- 4. PERSONNEL INVOLVED:
 - A. SUBJECT:
 - (1) RANK OR GRADE:
- (2) SSN (last 4):
- (3) RACE:
- (4) SEX:
- (5) AGE:
- (6) POSITION:
- (7) SECURITY CLEARANCE:
- (8) UNIT AND STATUS OF ASSIGNMENT:
- (9) DUTY STATUS:
- (10) UIC:
 - B. VICTIMS:
- 5. SUMMARY OF INCIDENT:
- 6. REMARKS:
- 7. PUBLICITY:
- 8. COMMANDER REPORTING:
- 9. POINT OF CONTACT:
- 10. DOWNGRADING INSTRUCTIONS:

Information regarding injuries, illness, or wounded in action are considered information for Official Use Only. No information in this regard should be discussed with individuals outside of this agency. All soldier health information is to be discussed in need-to-know bases and should not be discussed with individuals not on original message distribution list. Release of information to outside individuals regarding injuries, illness, or wounded in action are violations of multiple DOD Directives and Regulations. Extent of US service member wounds is protected information and can not be released without approval.

The release of information regarding service members Killed in Action is releasable under the guidelines of the Department of Defense. Once released, the service member's name, unit of assignment, home of record, and cause of death can be released.

APPROVED BY:



ACCIDENT REPORTING PROCEEDURES

- (1) Green 8 completed by unit will be submitted to JOC through chain of command.
- (2) SF91 completed by driver, signed by supervisor
- (3) SF94 witness statements from all parties involved.
- (4) Pictures of accident scene if pertinent and pictures of accident vehicle(s) if pertinent.
- (5) Police report when available
 - Ensure Items 1-5 above are sent electronically to <u>Gregory.m.greene8.mil@mail.mil</u> and <u>John.d.mullinax.mil@mail.mil</u> without delay.
 - Direct civilian person(s) involved to contact the State Safety Office at 919-664-6420/6253 for assistance with their claim



Which Course should I take?

North Carolina National Guard Motorcycle Safety Courses Offered:

Basic Rider Course 2 (BRC2) – for experienced riders that would like to sharpen their riding and road awareness skills

Advanced Rider Course (ARC) – for riders on any style of motorcycle that wish to continue to enhance their riding and awareness skill

Military SportBike Rider Course (MSRC) - Nearly identical to the ARC, this course adds specific language for sport bikes, includes military references, and has a video introduction and summary by Nick Lenatsch who is the author of Sport Riding Techniques.



To sign up or for more information call 919-664-6000 x 46253 or visit https://states.gkoportal.ng.mil/states/NC/jstaff/j3/aso/Pages/Motorcycle-Safety-Training.aspx

WBGT categories

ΟΊ	4	ယ	2	_	Category
=> 90	88-89.9	85-87.9	80-84.9	<= 79.9	WBGT, °F
=> 32.2	31.1-32.1	29.4-31.0	26.7-29.3	<= 26.6	WBGT, °C
Black	Red	Yellow	Green	White	Flag color

Continuous Work/Water Consumption Guide

		Easy V	Vork	Moderat	e Work	Hard W	/ork
Heat Category	WBGT Index, °F	Work/Rest	Water Intake (Qt/H)	Work/Rest	Water Intake (Qt/H)	Work/Rest	Water Intake (Qt/H)
1	78° - 81.9°	NL	1/2	NL	3/4	40/20 min (70 min)	¾ (1)
2 (GREEN)	82° - 84.9°	NL	1/2	50/10 min (150 min)	³⁄₄ (1)	30/30min (65 min)	1 (1 ¼)
3 (YELLOW)	85° - 87.9°	NL	3/4	40/20 min (100 min)	³ ⁄ ₄ (1)	30/30 min (55 min)	1 (1 ¼)
4 (RED)	88° - 89.9°	NL	3/4	30/30 min (80 min)	3/4 (1 1/4)	20/40 min (50 min)	1 (1 1/4)
5 (BLACK)	>90°	50/10 min (180 min)	1	20/40 min (70 min)	1 (1 1/4)	10/50 min (45 min)	1 (1 ½)

Easy Work = Walking on hard surface 2.5 mph <30 lb. load, weapon, marksmanship training.

Moderate Work = Patrolling, walking in sand 2.5 mph no load, calisthenics.

Hard Work = Walking in sand 2.5 mph with load, field assaults.

The work/rest times and fluid replacement volumes will sustain performance and hydration for at least 4 hours of work in the specified heat category. Fluid needs can vary based on individual differences (± ¼ qt/h) and exposure to full sun or full shade (± ¼ qt/h)

For Continuous Work, when rest breaks are not possible, refer to the values in parentheses. Leaders should ensure several hours of rest and rehydration time after continuous work.

Rest = minimal physical activity (sitting or standing) in shade if possible.

CAUSTION: hourly fluid intake should not exceed 1 ½ qts. Daily fluid intake should not exceed 12 qts.

If wearing body armor, add 5°F to WBGT index in humid climates.

Add 10°F (Easy Work) or 20°F (Moderate or Hard Work) to WBGT index when wearing NBC (MOPP 4)

NL = no limit to work time per hour.

NOTE: All fluids provide water, whether milk, fruit juice, etc.

Examp	Example Heat Illness Risk Management Matrix	sk Manageme	nt Matrix	
		Risk Level	-evel	
Risk Factors	0 points/circle Low Risk	1 point/circle Medium Risk	2 points/circle High Risk	3 points/circle Extreme Risk
Risk Management Worksheet	All controls implemented			Not All controls implemented
WBGT Add 5 F backpack or body armor	<cat 1<="" td=""><td>Cat 1</td><td>Cat 2-3</td><td>Cat 4-5</td></cat>	Cat 1	Cat 2-3	Cat 4-5
Back-to-back Cat 5 days	0	1	2-3	>4
Heat Illnesses in past 2 days	0	Heat Cramps	Heat Exhaustion	Heat Stroke/ Death
Workload in past 2 days (see TR 350-29 workload classification chart)	Easy	Easy or Moderate	Moderate or Hard	Hard
Projected workload	Easy	Easy or Moderate	Moderate or Hard	Hard
Heat acclimatization days	>13	7-13	3-6	<3
Leader/NCO presence	Full Time	Substantial	Minimal	None
Cadre duty experience	18 months	7-18 months	1-6 months	<1 month
Communication System (tested at training site)	Radio or Phone Line	Landline Phone only	Radio only	None
Previous 24 hours sleep	>7 hours	5-7 hours	2-4 hours	<2 hours
Food/salty snacks every 4 hours	<4 hours	4-6 hours	6-7 hours	<7 hours
Onsite 91W/CLS and iced sheets (min. 8 single bed sheets/company in cooler)	Both iced sheets & Medic, EMT, or CLS	Only Iced Sheets	Medic, EMT, or CLS	None
Add Circled Blocks with points/circle				

Total Score: 0-7 = Low Risk; 7-15 = Medium Risk; 16-24 = High Risk; 25-39 = Extreme Risk >11 Total Score should have onsite Medic, EMT, or CLS and organic evacuation transportation.

Heat exhaustion versus Heat Stroke Management

HEAT EXHAUSTION

- Rest Soldier in shade
- Loosen uniform/ remove head gear
- Have Soldier drink 2 quarts of water over 1 hour
- Evacuate if no improvement in 30 min, or if Soldier's condition worsens

HEAT STROKE

- · If Soldier's brain isn't working correctly then COOL and CALL!!
- > Strip
- > Rapid cool (ice sheets)
- ➤ Call for evacuation
- Continue cooling during transport
- Maintain same person to observe for mental change

Recognizing Heat-Related Illnesses

- Dizziness
- Headache
- Nausea
- Weakness
- ·Clumsy/unsteady walk
- Muscle cramps
- Profuse sweating
- Convulsions and chills
- Vomiting
- Confusion, mumbling
- Combative
- Passing out (unconscious)

Heat

Heat

Stroke

Exhaustion

Water Intoxication Hyponatremia

- History of large water consumption
- Confusion
- Vomiting (liquid, no food)
- Convulsions
- Clear urine

											>		
	40	35	30	25	20	15	10	5	Calm	(in MPH)	Wind Speed		
Little Danger for Properly Clothed Soldiers	26	27	28	30	32	36	40	48	50	Equivalent Chill Temperature (F)	50		WIND CHILL CHART
	10	11	13	15	18	22	28	37	40		40		
	-6	-4	-2	0	4	9	16	27	30		30	Actua	
Increase M	-22	-20	-18	-15	-10	-5	З	16	20		20	Actual Thermometer Readings (F)	
Increased Danger: Exposed Skin May Freeze (1 min)	-37	-35	-33	-29	-25	-18	-9	6	10	Temperati	10	eter Readi	ART
oosed Skin nin)	-53	-51	-48	-44	-39	-32	-21	-5	0	ure (F)	0	ngs (F)	
Great Danger: Exposed Skin May Freeze (30 Sec)	-69	-67	-63	-59	-53	-45	-33	-15	-10		-10		
	-85	-82	-79	-74	-67	-58	-46	-26	-20		-20		

COLD WEATHER INJURIES

FROSTBITE									
Cause	Symptoms	First Aid							
Freezing of tissue, normally due to exposure below 32 F.	Numbness in affected area. Tingling, blistered, swollen, or tender areas. Pale, yellowish, waxy-looking skin.	Warm affected area with direct body heat. Consult with medical personnel ASAP. DO NOT thaw frozen area if treatment will be delayed. DO NOT massage or rub affected area. DO NOT web area or rub with snow or ice.							
CHILBLAIN									
Repeated exposure of bare skin for prolonged periods to temperatures from 20 to 50 F (for those not acclimated to cold weather).	Symptoms Swollen, red skin (or darkening of skin in darkskinned people). Tender, hot skin, usually accompanied by itching.	First Aid Warm affected area with direct body heat. DO NOT massage or rub. DO NOT wet the area or rub with snow or ice. DO NOT expose affected area to open fire, stove, or any other intense heat source.							
IMMERSION FOOT (trench foot)									
Cause Prolonged exposure of feet to wet conditions at temperatures between 32 and 50 F. Inactivity and damp socks and boots (or tightly laced boots that impair circulation) speed onset and severity.	Cold, numb feet may progress to hot with shooting pains. Swelling, redness, and bleeding.	First Aid Rewarm feet by exposing them to warm air. Evacuate victim to a medical facility. DO NOT massage, rub, moisten, or expose affected area to extreme heat.							
DEHYDRATION									
Cause Depletion of body fluids.	Symptoms Dizziness. Weakness.	First Aid Replace lost water. Water should be sipped, not gulped. Get medical treatment.							
HYPOTHERMIA									
Cause Prolonged cold exposure and body heat loss. May occur well above freezing, especially when a person is immersed in water.	Symptoms Lack of shivering. Drowsiness, mental slowness, lack of coordination. Can progress to unconsciousness, irregular heartbeat, and death.	First Aid Strip off clothing and wrap victim in blankets or sleeping bag. Get victim to a heated location and medical treatment as soon as possible.							

Swift Water Rescue Safety

- Conduct deliberate risk assessment prior to any operation
- Conduct PCC's/PCI's
- Conduct through PMCS on all equipment before and after operation
- vulnerable to moving water The use of personal safety equipment should be mandatory for all Soldiers and other rescuers
- Upstream safety spotters should be used to warn of debris approaching the rescue scene
- and equipped for immediate rescue attempts. in case a rescuer or victim is swept away. Downstream safety personnel should be properly trained Downstream safety should be ensured by assigning personnel to stage downstream of a rescue site
- necessary. Be prepared to back off if conditions are too dangerous to conduct rescue operations with Low-risk methods should always be employed first. Consider increasingly high-risk options when



 Only highly trained and properly equipped personnel should operate around severe hazards such as low head dams, concrete flood channels that go underground, and hazardous debris such as power lines

- Communication is to the upmost importance of swift water operations, mutual aid communications should be considered when multiple agencies are assigned to a swift water incident.
- The safety of the individual rescuer, the rescue team, bystanders, and the victim should be considered in that order.
- Ensure accountability of personnel and equipment is conducted before, during and after operation.

HMMWV Fording Procedures

- Conduct Deliberate Risk Assessment Prior to all operations
 - Conduct PCC's / PCI's
- Conduct Before, During, and After PMCS

known to be 30 in. (76cm) or less, and bottom is known to be hard. Never attempt shallow water fording unless water depth is Do not exceed 5 mph (8 kph) during fording operation.

Damage to vehicle will result Before Operation

1) Make sure oil dipstick, transmission dipstick, oil filler cap, and fuel tank cap are secure.

 Secure all loose objects on vehicle; Make sure battery caps are all present and tight.

During Operation

Place transfer case shift lever in "H" (high range

CAUTION Entering water too fast will cause water to splash up over hood and into air intake. The engine may stop abruptly and will not crank. Do not continue starting efforts; damage to engine will result.

 Enter water slowly and maintain even vehicle speed while fording. 2) Exit water in area with gentle slope.

 Hydrostatic lock is caused by the entry of substantial amounts of water into the engine through the air intake system and subsequent contamination of the fuel system. Hydrostatic lock most frequently occurs during or just after fording. Water is forced into the air intake system, is drawn into the engine, and effectively "locks-up" the engine.

Notify unit maintenance if you suspect hydrostatic lock and they will further test the engine.

After Operation

Do not rely on service brakes after fording until the brakes dry out. Keep applying brakes until uneven braking cases. Failure to do this may cause damage to vehicle or injury or death to personnel.

NOTE:

If accumulated water drains slowly through floor drain holes, refer to unit maintenance for drilling and improving drain holes If fording operation was through salt water, wash and wipe off all salt deposits as soon as possible.

To prevent parking brake linkage from binding, lithium grease should be used after operating in mud. Clean mud, grit, and debris from linkage. Apply lithium grease and move linkage back and forth to work into joints.

Whicles completing shallow water fording operation must be lubricated and serviced by unit maintenance as soon as possible.

CHAIN-SAW SAFETY

CHAIN-SAW SAFETY GEAR

If you are clearing away a to resist being as Keylar that is reinforced a protective material such chaps, as well as the boots clothing. Leg coverings, or to wear special safety a chain saw, it is essential large number of trees with and gloves, are lined with





and a face protection incorporates The helmet cut through.





- Prior to any operation conduct a Deliberate Risk Assessment
- Conduct PPC's / PCl's
- Conduct PMCS on equipment
- chainsaw. Soldiers shall be trained in the safe and proper use of the
- appropriate helmet gloves, steel toe shoes and leg chaps Operator shall wear personal protective equipment including
- Do not wear loose-fitting clothing.
- adjusted according to the manufacturer's instructions ensure that they are functioning properly and that they are Check controls, chain tension, and all bolts and handles to
- reservoir is full. Make sure that the chain is always sharp and the lubrication
- starting is never allowed Start the saw on the ground or on another firm support. Drop
- chain's brake engaged. Start the saw at least 10 feet from the fueling area, with the
- Operator shall hold the saw with both hands while cutting
- Operator shall not use saw to cut above shoulder height.
- Operator and workers shall work from the up-hill side
- whenever possible.
- Block log or object to be cut whenever there is a possibility Be cautious of saw kick-back. To avoid kick-back, do not
- Soldiers shall be trained in proper lifting techniques saw with the tip. If equipped, keep tip guard in place
- wood into smaller sizes Use mechanical lifting device if load is too heavy or cut



Prepare for Natures Most Violent Storms....

Lightning Safety Rules

- Get to a safe place. When Thunder Roars, Go Indoors!

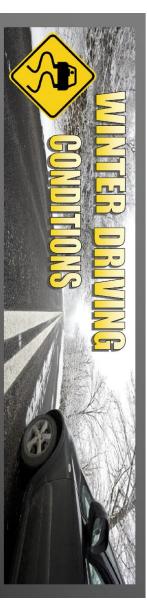
Keep away from electrical equipment and water pipes.

- shelter or safe room is available, a small, windowless interior room or hallway on the lowest level The safest place to be is an underground shelter, basement, or safe room. If no underground of a sturdy building is the safest alternative. Tornado Safety Rules
 - Mobile homes are not safe during tornadoes. Abandon mobile homes and go to the nearest sturdy building or shelter immediately.
- If you are caught outdoors, seek shelter. If you cannot quickly walk to a shelter immediately If flying debris occurs while you are driving, pull over and park. Now you have the following get into a vehicle, buckle your seat belt and try to drive to the closest sturdy shelter.
- Stay in your vehicle with the seat belt on. Put your head down below the windows,

options as a last resort.

- covering with your hands and a blanket if possible.
- If you can safely get noticeably lower than the level of the roadway, exit your car, and lie in that area, covering your head with your hands.

- Flash Flood Safety Rules
- Avoid driving, walking, or swimming in flood waters.
- If you come upon a flooded roadway never drive through it. TURN AROUND DON'T Stay away from high water, storm drains, ditches, ravines, or culverts.



ng Tips when the temperatures drop and the roads are icy:

- roof of your car is a visibility hazard to the driver behind you. Clear all snow from your car's windows, lights, license plates, and roof. Snow blowing from the
- Back off. Have patience and give people more lead-time, especially if there's snow on the road. You'll thank yourself when the car ahead suddenly spins out.
- Give yourself a brake. If you go into a skid, take your foot off the gas, steer into the skid, and has anti-lock braking systems (ABS), apply steady pressure to the brake pedal. regain control. If you have to stop right away, pump your brakes - don't slam on them. If your car
- your windows thoroughly. Make sure your windshield washer system works and is full of an anti-• Prepare your car. Keep your gas tank close to full to avoid gas line freeze-up. Clean the inside of icing fluid. Keep your tires properly inflated. Use your headlights so that others will see you.
- often looks like a harmless puddle or is overlooked entirely. Test the traction with a smooth brake one of winter's worst hazards: "black ice." Also called "glare ice," this is nearly transparent ice that application or slight turn of the wheel Watch carefully for "black ice." If the road looks slick, it probably is. This is especially true with
- candle, a parka and sleeping bag or emergency blanket, food, Carry a winter survival kit, especially on long trips or in isolated areas. Include matches and a

and spark plug wire. for diesel fuel, wrenches for minor repairs, a spare fan belt and radiator hose, spare spark plugs bottled water, first aid kit, jumper cables with safety goggles, gasoline antifreeze, fuel conditioner